

# ATTACHMENT ILLUSTRATED PARTS LIST



**MASSEY FERGUSON**  
LAWN & GARDEN EQUIPMENT

**AGCO**

## ATTACHMENT

**Mfg. No. Description**

1694153 Turbo Clean Sweep Twin Catcher

***Simplicity***

MANUFACTURING, INC.  
500 N Spring Street / PO Box 997  
Port Washington, WI 53074-0997 USA

[www.simplicitymfg.com](http://www.simplicitymfg.com)

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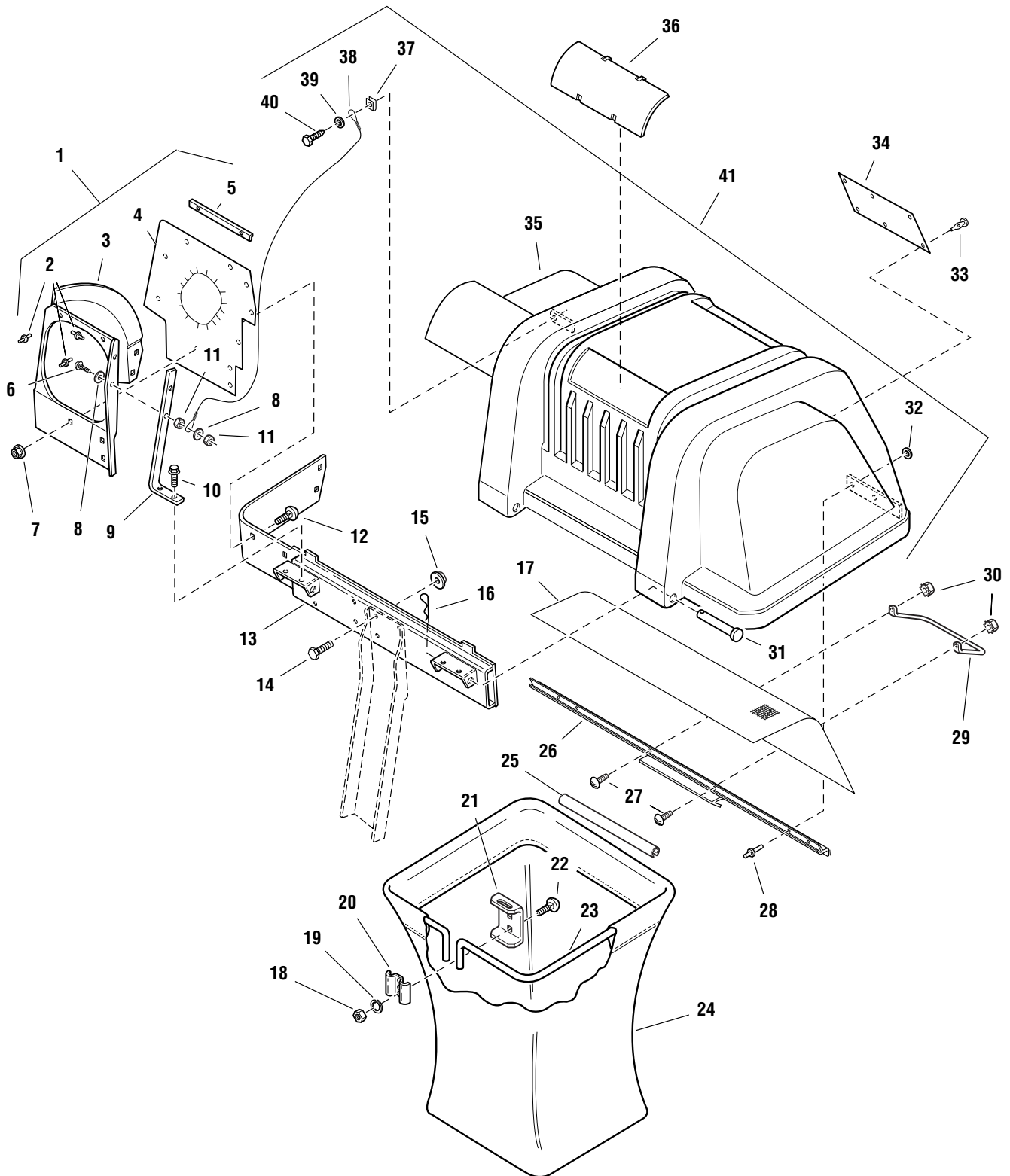
Rev. 03/2002

TP-400-2616-00-AT-SMA

## Cover & Bag Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.

983952



The above parts group applies to the following Mfg. Nos.:

1694153 Turbo Clean Sweep Twin Catcher

## Cover & Bag Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1704615	1	TUBE ASSEMBLY Support (Incl. Ref. Nos. 2, 3, 4, 5, 6, 8, 9 & 11)
2	1960381	7	RIVET, Pop
3	1704075	1	SUPPORT, Tube
4	1704135	1	SEAL, Cover
5	1704508	3	BRACKET, Seal
6	1960399	1	SCREW, Round Head, #8-32 x 7/8
7	1930642	5	LOCKNUT, Flange, 1/4-20
8	1960096	2	WASHER
9	1704507	1	STRAP, Tube Support
10	1927428	2	SCREW, Taptite, 1/4-20 x 3/8
11	1960077	2	NUT, Hex, Lock, #8-32
12	1960252	5	CARRIAGE BOLT, 1/4-20 x 5/8
13	1703822	1	CROSS ASSEMBLY.
14	1921966	4	CAPSCREW, Hex Head, 3/8-16 x 7/8
15	1928352	4	NUT, Hex, Whizlock, 3/8-16
16	1960221	2	CLIP, Hairpin
17	1703700	1	SCREEN
18	1917372	4	NUT, Hex, 5/16-18
19	1917356	4	LOCKWASHER, 5/16
20	1672023	2	CLAMP
21	1703807	2	HANGER
22	1931333	4	CARRIAGE BOLT, 5/16-18 x 3/4
23	1703855	2	HOOP, Bag
24	1703764	2	BAG, Grass
25	1675707	2	TUBE CLIP, Grass Bag
26	1704057	1	SEAL, Clip
27	1930531	2	SCREW, Truss Head, #10-32 x 1/2
28	1675043	4	RIVET, Pop
29	1703853	1	HANDLE, Latch
30	1928919	2	NUT, Hex, #10-32
31	960367	2	PIN, Round Head
32	1910531	4	WASHER
33	1667248	6	CLIP, Canoe
34	1704405	1	DECAL, Safety
35	1704033	1	COVER
36	1704180	2	WINDOW
37	1933886	1	NUT, Speed
38	1705876	1	CABLE, Double Loop
39	1921319	1	WASHER, 1/4
40	1960400	1	SCREW, Self-tapping, #10-12 x 5/8
41	1704056	1	COVER ASSEMBLY (Incl. Ref. Nos. 17, 26, 28, 32, 37, 38, 39 & 40)

### Footnotes:

The above parts group applies to the following Mfg. Nos.:

1694153 Turbo Clean Sweep Twin Catcher

**NOTE: Unless noted otherwise, use the standard hardware torque specification chart.**

Conquest, 1700, 2700 Series  
Prestige, 1800, 2800 - Series



1694153 Turbo Clean Sweep Twin Catcher

**Hitch Group**

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1960462	4	CAPSCREW, Hex Head, 1/2-13 x 2-1/2
2	1924361	4	WASHER
3	1668662	4	SPACER
4	1960355	4	LOCKNUT, Hex, 1/2-13
5	1916950	6	NUT, Hex, 3/8-16
6	1916965	6	LOCKWASHER, 3/8
7	1707526	1	SUPPORT, Upright
8	1921210	6	CAPSCREW, Hex Head, 3/8-16 x 1
9	1703744	1	BRACKET, Lower Hitch
10	1723067	2	SUPPORT, Side Hitch
11	1920415	6	CAPSCREW, Hex Head, 3/8-16 x 1-1/4
12	1723044	2	PLATE, Side
13	1960033	2	CLIP, Hair Pin
14	1931348	4	CARRIAGE BOLT, 3/8-16 x 3/4
15	1723065	1	CLAMP, Hitch
16	1723064	1	CLAMP, Plate
17	1917372	2	NUT, Hex, 5/16-18
18	1917356	2	LOCKWASHER
19	8271015	2	PIN, Round Head, Drilled
20	1960236	2	SPACER
21	1960223	2	CARRIAGE BOLT, 5/16-18 x 1-1/4

**Footnotes:**

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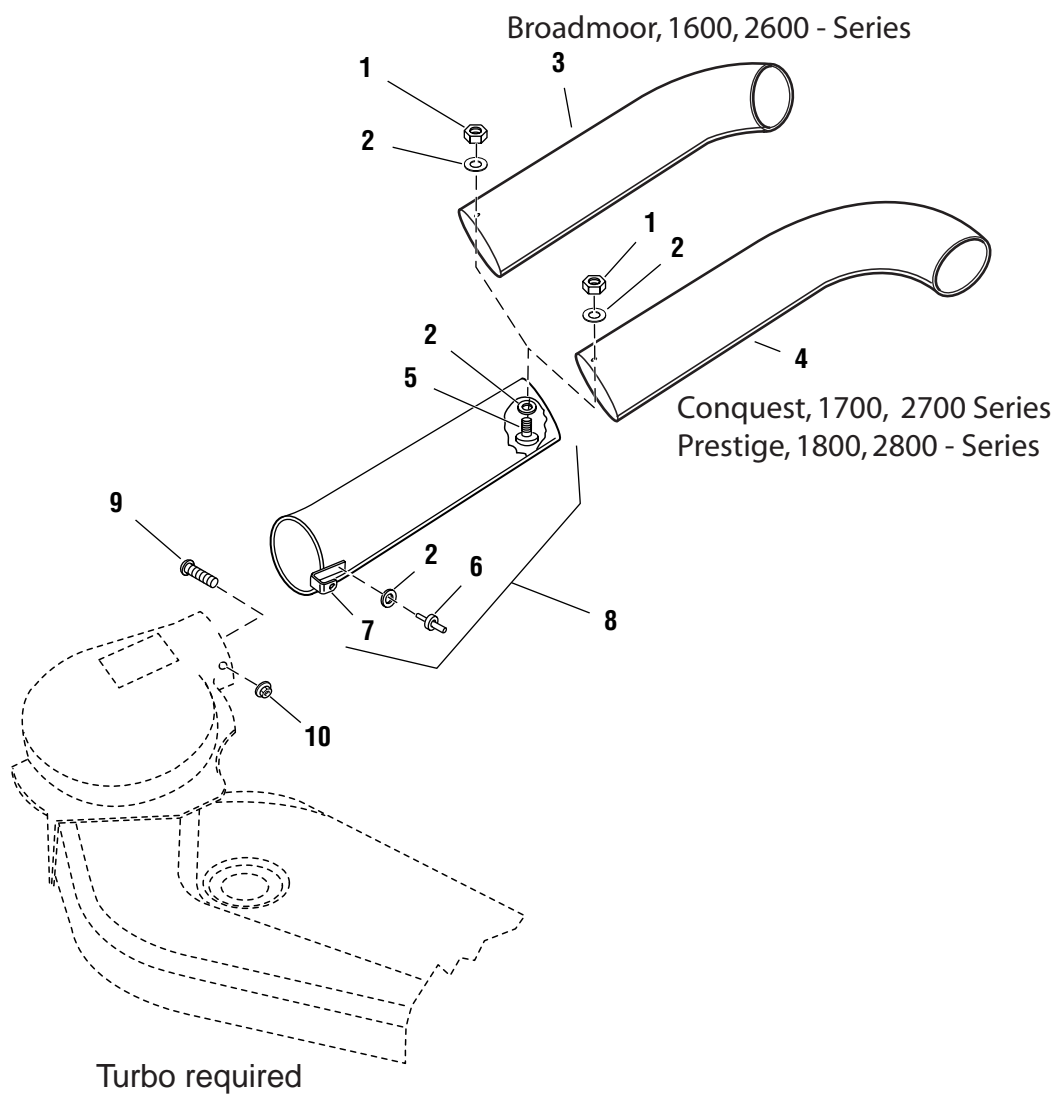
**The above parts group applies to the following Mfg. Nos.:**

1694153 Turbo Clean Sweep Twin Catcher

## Tube Group

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.

T986032



The above parts group applies to the following Mfg. Nos.:

1694153 Turbo Clean Sweep Twin Catcher

**Tube Group**

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1933896	2	NUT, Hex Nylock, #10-32
2	1960096	6	WASHER
3	1707710	1	ELBOW, Upper, (Broadmoor, 1600, 2600 - Series)
4	1704283	1	ELBOW, Upper, (Conquest, 1700 2700, Prestige, 1800, 2800 - Series)
5	1960404	2	SCREW, Truss Head, #10-32 x 1/2
6	910542	2	RIVET
7	1705063	1	CLIP, Spring
8	1707712	1	TUBE & SPRING ASSEMBLY (Incl. Ref. Nos. 2, 6, & 7)
9	1960252	1	CARRIAGE BOLT, 1/4-20 x 5/8
10	1930641	1	NUT, Hex Flange Lock, 1/4-20

**Footnotes:**

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**The above parts group applies to the following Mfg. Nos.:**

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# Hardware Identification & Torque Specifications

## Common Hardware Types

Hex Head Capscrew



Washer



Lockwasher

Carriage Bolt



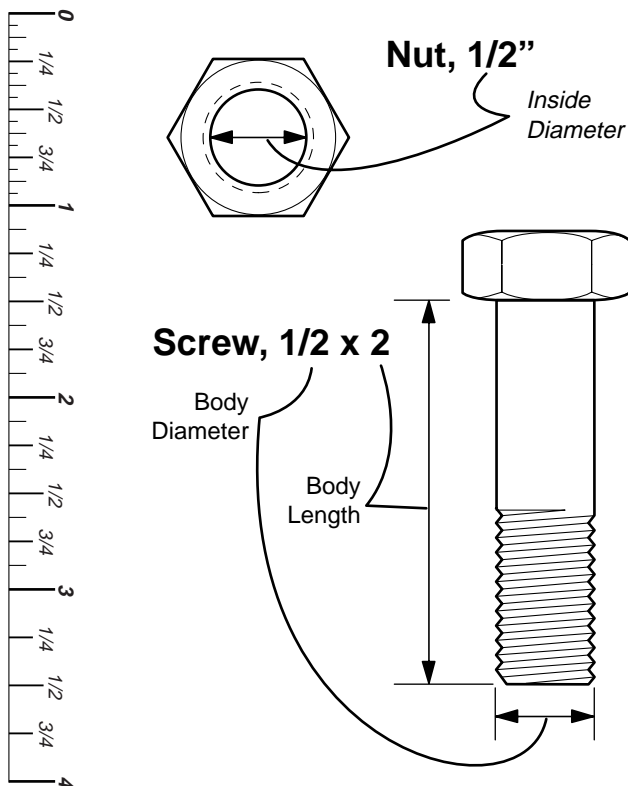
Hex Nut

## Standard Hardware Sizing

When a washer or nut is identified as **1/2"**, this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch; if a second number is present it represent the *threads per inch*

When bolt or capscrew is identified as **1/2 - 16 x 2"**, this means the *Nominal size*, or *body diameter* is 1/2 inch; the second number represents the *threads per inch* (16 in this example, and the final number is the *body length* of the bolt or screw (in this example 2 inches long).

**The guides and ruler furnished below are designed to help you select the appropriate hardware and tools.**



## Torque Specification Chart

FOR STANDARD MACHINE HARDWARE (Tolerance  $\pm 20\%$ )

Hardware Grade	No Marks SAE Grade 2		SAE Grade 5		SAE Grade 8	
	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	27	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0

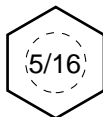
### NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
  - for prevailing torque locknuts - use 65% of grade 5 torques.
  - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

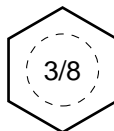
## Wrench & Fastener Size Guide



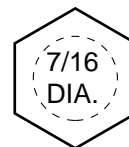
**1/4" Bolt or Nut**  
Wrench—7/16"



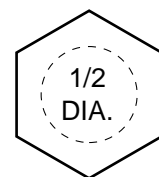
**5/16" Bolt or Nut**  
Wrench—1/2"



**3/8" Bolt or Nut**  
Wrench—9/16"



**7/16" Bolt or Nut**  
Wrench (Bolt)—5/8"  
Wrench (Nut)—11/16"



**1/2" Bolt or Nut**  
Wrench—3/4"